

TDMS No. 99027 - 03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
CHROMIUM PICOLINATE MONOHYDRATE
CAS Number: 27882-76-4

Date Report Requested: 03/16/2007
Time Report Requested: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02
Lab: SRI

F1_R2

C Number: C99027
Lock Date: 05/03/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.7.0

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FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	11	9	12	19
Natural Death	2	5	3	3
Survivors				
Natural Death			2	
Terminal Sacrifice	37	36	33	28
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Intestine Large, Cecum	(48)	(48)	(48)	(50)
Intestine Large, Colon	(48)	(46)	(46)	(48)
Ulcer				1 (2%)
Intestine Large, Rectum	(48)	(48)	(48)	(50)
Hemorrhage		1 (2%)		
Intestine Small, Duodenum	(49)	(48)	(48)	(50)
Intestine Small, Ileum	(49)	(45)	(47)	(45)
Liver	(50)	(50)	(50)	(50)
Angiectasis			2 (4%)	
Basophilic Focus	27 (54%)	32 (64%)	29 (58%)	27 (54%)
Clear Cell Focus	32 (64%)	32 (64%)	27 (54%)	26 (52%)
Degeneration, Cystic	1 (2%)	1 (2%)		1 (2%)
Eosinophilic Focus	1 (2%)	3 (6%)	5 (10%)	1 (2%)
Eosinophilic Focus, Multiple				1 (2%)
Hemorrhage	2 (4%)	3 (6%)	3 (6%)	1 (2%)
Hepatodiaphragmatic Nodule	7 (14%)	8 (16%)	6 (12%)	3 (6%)
Inflammation, Chronic	1 (2%)			1 (2%)
Mixed Cell Focus	4 (8%)			3 (6%)
Necrosis, Focal	5 (10%)	1 (2%)	4 (8%)	1 (2%)
Vacuolization Cytoplasmic		1 (2%)		
Bile Duct, Hyperplasia	23 (46%)	11 (22%)	14 (28%)	9 (18%)
Centrilobular, Bile Stasis				1 (2%)
Centrilobular, Necrosis	4 (8%)	3 (6%)	2 (4%)	3 (6%)
Centrilobular, Hepatocyte, Atrophy				1 (2%)
Hepatocyte, Vacuolization Cytoplasmic	8 (16%)	4 (8%)	9 (18%)	6 (12%)
Portal Vein, Thrombosis, Focal		1 (2%)		

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FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Serosa, Fibrosis	1 (2%)			
Serosa, Pigmentation	1 (2%)			
Mesentery	(15)	(10)	(8)	(9)
Accessory Spleen	3 (20%)		1 (13%)	
Hemorrhage	1 (7%)			
Fat, Necrosis	10 (67%)	7 (70%)	5 (63%)	6 (67%)
Oral Mucosa	(1)	(0)	(1)	(0)
Hyperplasia	1 (100%)			
Pancreas	(49)	(50)	(50)	(50)
Atrophy	37 (76%)	40 (80%)	35 (70%)	27 (54%)
Acinus, Hyperplasia, Focal	6 (12%)		2 (4%)	2 (4%)
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy	5 (10%)	6 (12%)	7 (14%)	5 (10%)
Necrosis		1 (2%)		
Stomach, Forestomach	(49)	(49)	(50)	(50)
Edema	1 (2%)	2 (4%)	4 (8%)	1 (2%)
Erosion	1 (2%)		1 (2%)	1 (2%)
Hemorrhage			1 (2%)	
Hyperkeratosis	1 (2%)			1 (2%)
Inflammation, Acute		1 (2%)		
Inflammation, Chronic Active		1 (2%)	1 (2%)	
Ulcer	2 (4%)		3 (6%)	3 (6%)
Vacuolization Cytoplasmic		1 (2%)		
Epithelium, Hyperplasia	3 (6%)	5 (10%)	4 (8%)	3 (6%)
Stomach, Glandular	(49)	(49)	(50)	(50)
Edema			1 (2%)	
Erosion	1 (2%)	1 (2%)	1 (2%)	3 (6%)
Hyperplasia, Focal			2 (4%)	
Ulcer	3 (6%)	1 (2%)	2 (4%)	1 (2%)
Tongue	(1)	(2)	(0)	(1)
Epithelium, Hyperplasia		2 (100%)		1 (100%)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	48 (96%)	47 (94%)	47 (94%)	45 (90%)
Fibrosis				1 (2%)
Thrombosis	3 (6%)	2 (4%)	4 (8%)	2 (4%)
Artery, Mineralization		1 (2%)		

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FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(49)	(50)	(50)
Accessory Adrenal Cortical Nodule	5 (10%)	22 (45%)	23 (46%)	15 (30%)
Angiectasis	1 (2%)			
Degeneration, Fatty	12 (24%)	7 (14%)	8 (16%)	8 (16%)
Hematopoietic Cell Proliferation				1 (2%)
Hemorrhage	1 (2%)	2 (4%)		
Hyperplasia, Focal	18 (36%)	22 (45%)	19 (38%)	21 (42%)
Hypertrophy, Focal		1 (2%)		
Necrosis	1 (2%)			1 (2%)
Capsule, Hyperplasia			1 (2%)	
Adrenal Medulla	(50)	(49)	(50)	(50)
Angiectasis	1 (2%)			
Hyperplasia	10 (20%)	2 (4%)	2 (4%)	4 (8%)
Islets, Pancreatic	(50)	(50)	(50)	(50)
Hyperplasia	6 (12%)	4 (8%)	3 (6%)	2 (4%)
Parathyroid Gland	(45)	(48)	(49)	(47)
Pituitary Gland	(50)	(49)	(50)	(50)
Cyst		1 (2%)		
Pars Distalis, Angiectasis				1 (2%)
Pars Distalis, Cyst	2 (4%)	1 (2%)	2 (4%)	3 (6%)
Pars Distalis, Hemorrhage				1 (2%)
Pars Distalis, Hyperplasia, Focal	15 (30%)	13 (27%)	17 (34%)	18 (36%)
Pars Distalis, Necrosis				1 (2%)
Pars Intermedia, Cyst				1 (2%)
Rathke's Cleft, Hemorrhage		1 (2%)		
Thyroid Gland	(50)	(50)	(50)	(50)
Ultimobranchial Cyst	1 (2%)			
C-cell, Hyperplasia	10 (20%)	5 (10%)	13 (26%)	6 (12%)
Follicular Cell, Hyperplasia		1 (2%)		
GENERAL BODY SYSTEM				
Tissue NOS	(2)	(1)	(2)	(1)
Hemorrhage	1 (50%)			
Necrosis, Focal			1 (50%)	
GENITAL SYSTEM				

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FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Epididymis	(49)	(50)	(50)	(50)
Granuloma Sperm	1 (2%)		1 (2%)	
Preputial Gland	(50)	(50)	(50)	(50)
Atrophy				1 (2%)
Cyst	4 (8%)	3 (6%)	3 (6%)	2 (4%)
Hyperplasia	3 (6%)	1 (2%)		2 (4%)
Inflammation, Chronic	26 (52%)	35 (70%)	30 (60%)	25 (50%)
Prostate	(50)	(50)	(50)	(50)
Cyst		1 (2%)	1 (2%)	1 (2%)
Inflammation, Chronic	8 (16%)	12 (24%)	10 (20%)	11 (22%)
Epithelium, Hyperplasia	4 (8%)	9 (18%)	11 (22%)	4 (8%)
Seminal Vesicle	(50)	(50)	(50)	(50)
Inflammation, Chronic	1 (2%)			
Bilateral, Cyst			1 (2%)	
Epithelium, Hyperplasia			1 (2%)	
Testes	(50)	(50)	(50)	(50)
Mineralization	1 (2%)			
Thrombosis, Focal	1 (2%)			
Germinal Epithelium, Atrophy	11 (22%)	9 (18%)	12 (24%)	11 (22%)
Interstitial Cell, Hyperplasia		3 (6%)	4 (8%)	5 (10%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Depletion Cellular		1 (2%)		
Myelofibrosis	3 (6%)	1 (2%)		3 (6%)
Lymph Node	(15)	(15)	(13)	(17)
Hyperplasia, Lymphoid		1 (7%)		
Mediastinal, Ectasia		2 (13%)	1 (8%)	1 (6%)
Mediastinal, Hemorrhage	2 (13%)	2 (13%)	1 (8%)	1 (6%)
Mediastinal, Hyperplasia, Lymphoid	1 (7%)		1 (8%)	1 (6%)
Mediastinal, Pigmentation	1 (7%)			
Pancreatic, Ectasia	1 (7%)	1 (7%)	2 (15%)	4 (24%)
Pancreatic, Hemorrhage	2 (13%)		1 (8%)	1 (6%)
Pancreatic, Hyperplasia, Lymphoid	1 (7%)			1 (6%)
Pancreatic, Infiltration Cellular, Histiocyte				1 (6%)
Renal, Ectasia		1 (7%)		
Renal, Hyperplasia, Lymphoid		1 (7%)		
Lymph Node, Mandibular	(2)	(0)	(1)	(2)
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)

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Atrophy	1 (2%)			
Ectasia	2 (4%)		2 (4%)	5 (10%)
Hemorrhage	1 (2%)	1 (2%)		
Hyperplasia, Reticulum Cell	1 (2%)		1 (2%)	1 (2%)
Spleen	(50)	(50)	(50)	(50)
Fibrosis			1 (2%)	1 (2%)
Hematopoietic Cell Proliferation	3 (6%)	1 (2%)	2 (4%)	4 (8%)
Hemorrhage	1 (2%)			
Metaplasia, Osseous			1 (2%)	
Necrosis	2 (4%)			
Pigmentation	26 (52%)	29 (58%)	28 (56%)	33 (66%)
Thrombosis				1 (2%)
Lymphoid Follicle, Hyperplasia	20 (40%)	9 (18%)	8 (16%)	14 (28%)
Thymus	(48)	(45)	(48)	(48)
Atrophy	37 (77%)	40 (89%)	36 (75%)	35 (73%)
Hemorrhage		1 (2%)		
INTEGUMENTARY SYSTEM				
Mammary Gland	(49)	(50)	(50)	(49)
Cyst	3 (6%)	1 (2%)	3 (6%)	6 (12%)
Hyperplasia	8 (16%)	13 (26%)	20 (40%)	9 (18%)
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion			1 (2%)	4 (8%)
Hyperkeratosis	2 (4%)	3 (6%)	3 (6%)	1 (2%)
Inflammation, Chronic			1 (2%)	
Ulcer			1 (2%)	
Epidermis, Hyperplasia		3 (6%)	3 (6%)	1 (2%)
Pinna, Ulcer				1 (2%)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Osteopetrosis	2 (4%)		1 (2%)	
Skeletal Muscle	(2)	(1)	(0)	(3)
Hemorrhage	1 (50%)			
Necrosis	1 (50%)			
NERVOUS SYSTEM				

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FISCHER 344 RATS MALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Brain	(50)	(50)	(50)	(50)
Compression	5 (10%)	4 (8%)	4 (8%)	5 (10%)
Edema, Focal				1 (2%)
Hemorrhage	6 (12%)	8 (16%)	5 (10%)	1 (2%)
Metaplasia, Lipocyte, Focal				1 (2%)
Necrosis	1 (2%)	2 (4%)	2 (4%)	
Thrombosis		1 (2%)		1 (2%)
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Fibrosis				1 (2%)
Hemorrhage	2 (4%)	3 (6%)	3 (6%)	
Infiltration Cellular, Eosinophil		1 (2%)		
Infiltration Cellular, Histiocyte	43 (86%)	47 (94%)	41 (82%)	43 (86%)
Inflammation, Chronic		1 (2%)	3 (6%)	2 (4%)
Metaplasia, Osseous	5 (10%)	4 (8%)	3 (6%)	2 (4%)
Metaplasia, Squamous, Focal		1 (2%)		
Alveolar Epithelium, Hyperplasia	13 (26%)	11 (22%)	15 (30%)	19 (38%)
Alveolar Epithelium, Metaplasia, Squamous				1 (2%)
Nose	(50)	(50)	(50)	(50)
Foreign Body	12 (24%)	9 (18%)	6 (12%)	3 (6%)
Inflammation, Chronic	11 (22%)	16 (32%)	11 (22%)	7 (14%)
Thrombosis			1 (2%)	
Goblet Cell, Hyperplasia	1 (2%)	1 (2%)		
Respiratory Epithelium, Hyperplasia			1 (2%)	
Respiratory Epithelium, Metaplasia, Squamous		2 (4%)		
Trachea	(50)	(50)	(50)	(50)
SPECIAL SENSES SYSTEM				
Ear	(1)	(0)	(0)	(0)
Hemorrhage	1 (100%)			
External Ear, Inflammation, Acute	1 (100%)			
Eye	(50)	(50)	(50)	(50)
Cataract	1 (2%)	3 (6%)	3 (6%)	2 (4%)
Degeneration			1 (2%)	
Pigmentation, Hemosiderin, Focal				1 (2%)
Retinal Detachment, Focal				1 (2%)

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Retina, Degeneration	1 (2%)	1 (2%)		
Retina, Necrosis, Focal				1 (2%)
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia, Focal		1 (2%)		
Zymbal's Gland	(0)	(1)	(0)	(0)
URINARY SYSTEM				
Kidney	(50)	(49)	(50)	(50)
Cyst	1 (2%)			1 (2%)
Infarct			2 (4%)	1 (2%)
Inflammation, Suppurative	1 (2%)			
Nephropathy	50 (100%)	47 (96%)	47 (94%)	48 (96%)
Thrombosis			1 (2%)	
Pelvis, Dilatation		2 (4%)		
Renal Tubule, Hyperplasia	3 (6%)		5 (10%)	3 (6%)
Renal Tubule, Necrosis		1 (2%)		
Transitional Epithelium, Hyperplasia	1 (2%)	3 (6%)	1 (2%)	1 (2%)
Urethra	(0)	(1)	(1)	(0)
Angiectasis		1 (100%)		
Bulbourethral Gland, Cyst			1 (100%)	
Urinary Bladder	(50)	(50)	(50)	(50)
Edema	1 (2%)			
Hemorrhage	1 (2%)	1 (2%)		
Inflammation, Chronic	1 (2%)		1 (2%)	1 (2%)

*** END OF MALE ***

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Disposition Summary				
Animals Initially in Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	11	13	11	8
Natural Death	3	2	3	2
Survivors				
Natural Death	1			1
Terminal Sacrifice	35	35	36	39
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Infiltration Cellular, Lymphocyte				1 (2%)
Intestine Large, Colon	(47)	(48)	(50)	(48)
Intestine Small, Ileum	(46)	(49)	(50)	(47)
Necrosis, Lymphoid			1 (2%)	
Liver	(50)	(50)	(50)	(50)
Angiectasis				1 (2%)
Basophilic Focus	41 (82%)	44 (88%)	46 (92%)	44 (88%)
Clear Cell Focus	27 (54%)	23 (46%)	22 (44%)	21 (42%)
Degeneration, Cystic		1 (2%)		
Eosinophilic Focus		1 (2%)		1 (2%)
Eosinophilic Focus, Multiple			1 (2%)	
Hemorrhage	1 (2%)	1 (2%)	1 (2%)	
Hepatodiaphragmatic Nodule	8 (16%)	8 (16%)	8 (16%)	8 (16%)
Hypertrophy, Focal	1 (2%)			
Infiltration Cellular, Lymphocyte				1 (2%)
Inflammation, Chronic	3 (6%)	1 (2%)	4 (8%)	2 (4%)
Mixed Cell Focus		1 (2%)	4 (8%)	3 (6%)
Necrosis, Focal	2 (4%)		2 (4%)	3 (6%)
Thrombosis	2 (4%)	1 (2%)		1 (2%)
Bile Duct, Hyperplasia	3 (6%)	6 (12%)	5 (10%)	2 (4%)
Centrilobular, Necrosis	4 (8%)	1 (2%)	1 (2%)	1 (2%)
Hepatocyte, Vacuolization Cytoplasmic	6 (12%)	3 (6%)	6 (12%)	5 (10%)
Mesentery	(11)	(6)	(7)	(13)
Accessory Spleen			1 (14%)	2 (15%)
Fibrosis			1 (14%)	

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Fat, Necrosis	11 (100%)	6 (100%)	5 (71%)	12 (92%)
Oral Mucosa	(0)	(0)	(1)	(0)
Pancreas	(49)	(50)	(50)	(50)
Atrophy	21 (43%)	27 (54%)	27 (54%)	26 (52%)
Metaplasia, Hepatocyte		1 (2%)		
Necrosis				1 (2%)
Acinus, Hyperplasia, Focal	1 (2%)		1 (2%)	1 (2%)
Salivary Glands	(50)	(50)	(50)	(50)
Atrophy	11 (22%)	19 (38%)	19 (38%)	16 (32%)
Cyst		1 (2%)		
Vacuolization Cytoplasmic			1 (2%)	
Stomach, Forestomach	(49)	(50)	(50)	(50)
Edema	1 (2%)	1 (2%)		1 (2%)
Erosion				1 (2%)
Inflammation, Acute	1 (2%)			
Inflammation, Chronic Active	1 (2%)			
Ulcer	1 (2%)	2 (4%)	1 (2%)	2 (4%)
Epithelium, Hyperplasia	2 (4%)	1 (2%)	1 (2%)	1 (2%)
Stomach, Glandular	(49)	(50)	(50)	(50)
Edema		3 (6%)		
Erosion	2 (4%)	3 (6%)	1 (2%)	2 (4%)
Inflammation, Acute		1 (2%)		
Ulcer	1 (2%)	1 (2%)		
Tongue	(1)	(0)	(3)	(2)
Hyperkeratosis			1 (33%)	
Epithelium, Hyperplasia	1 (100%)		2 (67%)	2 (100%)
CARDIOVASCULAR SYSTEM				
Heart	(50)	(50)	(50)	(50)
Cardiomyopathy	44 (88%)	44 (88%)	47 (94%)	46 (92%)
Inflammation, Chronic			1 (2%)	
Thrombosis	3 (6%)			
ENDOCRINE SYSTEM				
Adrenal Cortex	(50)	(50)	(50)	(50)
Accessory Adrenal Cortical Nodule	4 (8%)	10 (20%)	9 (18%)	9 (18%)
Angiectasis	1 (2%)	1 (2%)	2 (4%)	
Degeneration, Cystic		3 (6%)		

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Degeneration, Fatty	6 (12%)	5 (10%)	2 (4%)	3 (6%)
Hematopoietic Cell Proliferation			1 (2%)	
Hemorrhage	1 (2%)	3 (6%)	1 (2%)	
Hyperplasia, Focal	12 (24%)	20 (40%)	26 (52%)	24 (48%)
Hypertrophy	2 (4%)	5 (10%)	3 (6%)	7 (14%)
Hypertrophy, Focal			1 (2%)	
Necrosis	2 (4%)		1 (2%)	1 (2%)
Vacuolization Cytoplasmic	1 (2%)	2 (4%)		1 (2%)
Adrenal Medulla	(50)	(49)	(50)	(50)
Hyperplasia		4 (8%)		1 (2%)
Islets, Pancreatic	(49)	(50)	(50)	(50)
Angiectasis, Focal		1 (2%)		
Hyperplasia	1 (2%)	2 (4%)	3 (6%)	1 (2%)
Parathyroid Gland	(48)	(49)	(48)	(43)
Pituitary Gland	(49)	(50)	(50)	(50)
Hemorrhage			1 (2%)	1 (2%)
Pars Distalis, Angiectasis	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Pars Distalis, Cyst	11 (22%)	8 (16%)	9 (18%)	11 (22%)
Pars Distalis, Hyperplasia, Focal	15 (31%)	7 (14%)	9 (18%)	12 (24%)
Pars Distalis, Infiltration Cellular, Mononuclear Cell		1 (2%)		
Pars Distalis, Pigmentation		1 (2%)		
Pars Intermedia, Angiectasis	1 (2%)		1 (2%)	
Pars Intermedia, Cyst	1 (2%)		2 (4%)	1 (2%)
Rathke's Cleft, Hemorrhage	1 (2%)		1 (2%)	
Thyroid Gland	(49)	(50)	(50)	(50)
Ultimobranchial Cyst	1 (2%)	5 (10%)		
C-cell, Hyperplasia	25 (51%)	29 (58%)	24 (48%)	21 (42%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(50)	(50)	(50)	(50)
Cyst	2 (4%)	5 (10%)	2 (4%)	5 (10%)
Hyperplasia	8 (16%)	10 (20%)	11 (22%)	4 (8%)
Inflammation, Chronic	4 (8%)	5 (10%)	3 (6%)	3 (6%)
Ovary	(50)	(50)	(50)	(50)

TDMS No. 99027 - 03
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 CHROMIUM PICOLINATE MONOHYDRATE
 CAS Number: 27882-76-4

Date Report Requested: 03/16/2007
 Time Report Requested: 08:39:18
 First Dose M/F: 08/12/02 / 08/12/02
 Lab: SRI

FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Cyst	8 (16%)	5 (10%)	6 (12%)	7 (14%)
Uterus	(50)	(50)	(50)	(50)
Angiectasis				1 (2%)
Hemorrhage	1 (2%)			
Hyperplasia, Cystic	17 (34%)	30 (60%)	24 (48%)	19 (38%)
Inflammation, Suppurative	1 (2%)	1 (2%)		1 (2%)
Inflammation, Chronic		1 (2%)	1 (2%)	
Cervix, Hemorrhage	1 (2%)			
Vagina	(5)	(6)	(1)	(3)
Inflammation				1 (33%)
HEMATOPOIETIC SYSTEM				
Bone Marrow	(50)	(50)	(50)	(50)
Infiltration Cellular, Histiocyte		1 (2%)		
Myelofibrosis	2 (4%)	3 (6%)	1 (2%)	
Lymph Node	(9)	(10)	(11)	(7)
Deep Cervical, Ectasia	1 (11%)			
Deep Cervical, Hemorrhage	1 (11%)			
Deep Cervical, Hyperplasia, Lymphoid	1 (11%)			
Mediastinal, Ectasia	3 (33%)	2 (20%)	1 (9%)	1 (14%)
Mediastinal, Hemorrhage	2 (22%)	2 (20%)	3 (27%)	
Mediastinal, Hyperplasia				1 (14%)
Mediastinal, Hyperplasia, Lymphoid	1 (11%)		2 (18%)	1 (14%)
Mediastinal, Pigmentation	2 (22%)			
Mediastinal, Pigmentation, Hemosiderin		2 (20%)		
Pancreatic, Ectasia			1 (9%)	
Pancreatic, Hemorrhage		1 (10%)	1 (9%)	1 (14%)
Pancreatic, Hyperplasia, Lymphoid			1 (9%)	1 (14%)
Pancreatic, Pigmentation				1 (14%)
Lymph Node, Mandibular	(1)	(3)	(1)	(0)
Ectasia	1 (100%)	1 (33%)	1 (100%)	
Hyperplasia, Lymphoid	1 (100%)			
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)
Ectasia			1 (2%)	
Hemorrhage	1 (2%)			
Hyperplasia, Reticulum Cell			1 (2%)	
Pigmentation, Hemosiderin	1 (2%)	1 (2%)		
Spleen	(50)	(50)	(50)	(49)
Fibrosis		2 (4%)	1 (2%)	

a - Number of animals examined microscopically at site and number of animals with lesion

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 CHROMIUM PICOLINATE MONOHYDRATE
 CAS Number: 27882-76-4

Date Report Requested: 03/16/2007
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FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Hematopoietic Cell Proliferation	4 (8%)	5 (10%)	1 (2%)	2 (4%)
Hemorrhage			1 (2%)	
Hyperplasia, Lymphoid, Focal			1 (2%)	1 (2%)
Infarct				1 (2%)
Pigmentation	40 (80%)	43 (86%)	44 (88%)	44 (90%)
Thrombosis				1 (2%)
Lymphoid Follicle, Hyperplasia	7 (14%)	5 (10%)	7 (14%)	6 (12%)
Thymus	(46)	(48)	(49)	(48)
Atrophy	37 (80%)	37 (77%)	45 (92%)	45 (94%)
Cyst			1 (2%)	
INTEGUMENTARY SYSTEM				
Mammary Gland	(50)	(49)	(50)	(50)
Cyst	8 (16%)	2 (4%)		1 (2%)
Hyperplasia	37 (74%)	38 (78%)	33 (66%)	42 (84%)
Skin	(50)	(50)	(50)	(50)
Cyst Epithelial Inclusion		1 (2%)	3 (6%)	
Fibrosis			1 (2%)	
Hyperkeratosis		2 (4%)		2 (4%)
Inflammation, Chronic			2 (4%)	2 (4%)
Ulcer			1 (2%)	1 (2%)
Epidermis, Hyperplasia				1 (2%)
Sebaceous Gland, Hyperplasia				1 (2%)
MUSCULOSKELETAL SYSTEM				
Bone	(50)	(50)	(50)	(50)
Osteopetrosis		1 (2%)		
NERVOUS SYSTEM				
Brain	(50)	(50)	(50)	(50)
Compression	9 (18%)	10 (20%)	11 (22%)	13 (26%)
Gliosis	1 (2%)			
Hemorrhage	2 (4%)	1 (2%)	2 (4%)	3 (6%)
Spinal Cord	(2)	(4)	(3)	(1)

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TDMS No. 99027 - 03
 Test Type: CHRONIC
 Route: DOSED FEED
 Species/Strain: RATS/F 344

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)
 CHROMIUM PICOLINATE MONOHYDRATE
 CAS Number: 27882-76-4

Date Report Requested: 03/16/2007
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FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
RESPIRATORY SYSTEM				
Lung	(50)	(50)	(50)	(50)
Congestion				1 (2%)
Foreign Body				2 (4%)
Hemorrhage	3 (6%)	1 (2%)	1 (2%)	4 (8%)
Hyperplasia, Lymphoid				1 (2%)
Infiltration Cellular, Histiocyte	49 (98%)	47 (94%)	47 (94%)	46 (92%)
Inflammation, Chronic	2 (4%)	4 (8%)	3 (6%)	8 (16%)
Metaplasia, Osseous	2 (4%)	2 (4%)	1 (2%)	
Metaplasia, Squamous		1 (2%)		
Necrosis	1 (2%)			
Thrombosis	1 (2%)			1 (2%)
Alveolar Epithelium, Hyperplasia	6 (12%)	5 (10%)	6 (12%)	4 (8%)
Alveolar Epithelium, Metaplasia, Squamous		1 (2%)		
Serosa, Hyperplasia	1 (2%)			
Nose	(50)	(50)	(50)	(50)
Foreign Body		1 (2%)		1 (2%)
Inflammation, Chronic	5 (10%)	4 (8%)	3 (6%)	3 (6%)
Nasolacrimal Duct, Cyst				1 (2%)
Turbinate, Dysplasia			1 (2%)	
SPECIAL SENSES SYSTEM				
Eye	(47)	(49)	(50)	(50)
Cataract	2 (4%)	2 (4%)	1 (2%)	2 (4%)
Edema	1 (2%)			
Hemorrhage		1 (2%)		
Inflammation, Chronic				1 (2%)
Retinal Detachment	1 (2%)			
Bilateral, Retinal Detachment		1 (2%)		
Cornea, Hyperplasia				1 (2%)
Retina, Degeneration	1 (2%)	2 (4%)	1 (2%)	1 (2%)
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia, Focal			1 (2%)	
Zymbal's Gland	(1)	(0)	(0)	(0)
URINARY SYSTEM				

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FISCHER 344 RATS FEMALE	0 PPM	2000 PPM	10000 PPM	50000 PPM
Kidney	(47)	(50)	(50)	(50)
Cyst		1 (2%)		
Infarct, Chronic			1 (2%)	
Infiltration Cellular, Lymphocyte				1 (2%)
Nephropathy	46 (98%)	47 (94%)	48 (96%)	50 (100%)
Thrombosis	1 (2%)	1 (2%)		
Papilla, Inflammation, Suppurative			1 (2%)	
Renal Tubule, Hyperplasia	1 (2%)		1 (2%)	2 (4%)
Transitional Epithelium, Hyperplasia			1 (2%)	
Transitional Epithelium, Mineralization, Focal		1 (2%)		
Urinary Bladder	(50)	(50)	(49)	(50)
Edema			1 (2%)	1 (2%)
Hyperplasia, Lymphoid		1 (2%)		

*** END OF REPORT ***